



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RB KIT 407M-05
Job Sheet 171577



5052175

DAS
13
9-89

Part No: RB KIT 407M-05

Job Qty: 6 pcs

MAR 16 2018

Part Name: Gauge Pin



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 2/5/18

Job Tracking No:

Due Date: 2/9/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	6 Ea	2/9/18	2/9/18	0.00	0.00	Start Up Container		AT 18/03/21
100	Outsource	6 pcs	2/9/18	2/9/18	0.00	0.00	Outsource16		AT 18/03/21
110	Packaging	6 pcs	2/9/18	2/9/18	0.00	0.00	Packaging2		AT 18/03/21
120	QC	6 pcs	2/9/18	2/9/18	0.00	0.00	QC6		38
130	Packaging	6 pcs	2/9/18	2/9/18	0.00	0.00	Packaging3		38
140	QC	6 pcs	2/9/18	2/9/18	0.00	0.00	QC21		38

Part Op 100 - 1-Issue P/O to KG Grinding; P/O 039203 2 Grind as per DWG. (Ship quantity req'd: 1 vial makes 4 pins) 3-
Descriptions: Certificate of Conformity is required

DAS
21
9-89

MAR 27 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
GM32-1728	Gauge Pin 0.0540	6 (1 ea)	100-Outsource	5044657 5053764

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Outsource	GM32-1728	6	0	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS				
Part No. _____		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	
NCR No. _____		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	
		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	
		Large Fab ☐	Composite ☐	Supplier ☐		

Date : _____	Step #: _____	QTY Effective : _____	MRB (QS1042) Approval
--------------	---------------	-----------------------	-----------------------

Description Work Order Deviation	Disposition
----------------------------------	-------------

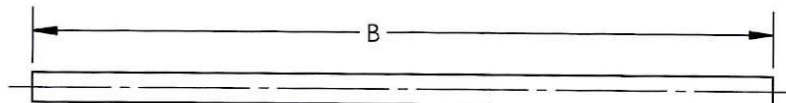
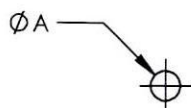
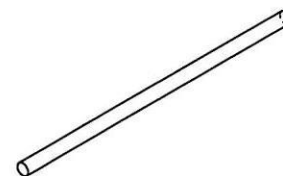
Job No: 171577 Mfg Date: 03/16/18 Packaging Operation: _____ Revision: _____ Serial No/Batch: S052175 PART NO: RB KIT 407M-05	Completed By
	Lead hand / Supervisor Approval Verification
	QC / QA Coordinator Approval

Root Cause			
Environment ☐	No Re-verification ☐	Container No. _____ Gauge Pin .0540" dia. 	
Design ☐	Operator ☐		
Doc/Data ☐	Offset/Setup ☐		
Equip/Tooling ☐	Supplier ☐		
Handling/Pre ☐	Training ☐		
Material ☐	Use for Testing ☐		
Internal Transport ☐	Poor Information ☐		
Tribal Knowledge ☐	Rushing ☐		
LOA ☐	Product Improvement ☐		
Substation ☐	Process Improvement ☐		
Past Expiry Date ☐	Manufacturing Process ☐	Crushing ☐ Countersink ☐ Heat Treat ☐ Cut Too Short ☐ Mislabeled ☐ Wave/Twist in Tube ☐ Instructions Incomplete/Unclear ☐ Fit/Function ☐ Marks/Chatter ☐ Drill Holes ☐ Misaligned/off center ☐	
Misidentified ☐	Past Due ☐		
OTHER : _____		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	17-0085	-01 THRU -31 ADDED GUAGE PIN DIMENSIONS TABLE.	4/6/2017	RJC	JAG

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 171577 MWS
1802-05



GUAGE PIN DIMENSIONS		
PART NUMBER	ØA	B
-01	(Ø.0240)	1"
-03	(Ø.0400)	1"
-05	(Ø.0540)	1"
-07	(Ø.0600)	1"
-09	(Ø.0800)	1"
-11	(Ø.0960)	1"
-13	(Ø.1080)	1"
-15	(Ø.1200)	1"
-17	(Ø.1440)	1"
-19	(Ø.1440)	1/4"
-21	(Ø.1600)	1"
-23	(Ø.1600)	1/4"
-25	(Ø.1728)	1"
-27	(Ø.1728)	1/4"
-29	(Ø.1800)	1"
-31	(Ø.1920)	1"

-01 THRU -31
GUAGE PIN

DART AEROSPACE	
TITLE SPLINE MEASURING KIT ASSY	
DWG NO. RB KIT 407M-01 THRU -31	REV 2
MAT'L HEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/✓
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: MACKOVJAK	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	BELL 407
SCALE 4:1	DATE 12/7/2016
SHEET 2 OF 5	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO039202

Supplier: AFF001-VC
Affutage K.G. Inc.
11455 Philippe Panneton Ave.
Montreal
QC
H1E 4M1 Canada
Phone: 514 323 0192 514 323 6631
Fax: 514 323 6631

PO No: PO039202

PO Date: 3/5/18

Due Date: 3/14/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

REVISED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	170734	RBST4241-5	Roller ISSUE P/O: _____ TO KG GRINDING. MANUFACTURE AS PER DWG. SHIP QTY REQUIRED OF 89031009	Firmed	3/14/18	6 pcs	0 pcs 6x	6 pcs AT	\$12.00/pcs	\$72.00
2	173095	RBST2854-5	Roller ISSUE P/O: _____ TO KG GRINDING. MANUFACTURE AS PER DWG. SHIP QTY REQUIRED OF 89031009 1 pin make 4 pcs	Firmed	3/14/18	26 pcs	0 pcs 26x	26 pcs	\$12.00/pcs	\$312.00
3	170733	RBST1016-5	Roller ISSUE P/O: _____ TO KG GRINDING. MANUFACTURE AS PER DWG. SHIP QTY REQUIRED OF 89031009	Firmed	3/14/18	6 pcs	0 pcs 6x	6 pcs	\$12.00/pcs	\$72.00
4	171045	RBST1007-5	Roller ISSUE P/O: _____ TO KG GRINDING. MANUFACTURE AS PER DWG. SHIP QTY REQUIRED OF 89031009 1 pin make 3 pcs	Firmed	3/14/18	6 pcs	0 pcs 6x	6 pcs	\$12.00/pcs	\$72.00
5	RB KIT 407M-09	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	3 pcs	0 pcs 3x	3 pcs	\$12.00/pcs	\$36.00	

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	171579	RB KIT 407M-07	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	3 pcs	0 pcs	3 pcs	\$12.00/pcs	\$36.00
7	171585	RB KIT 407M-15	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	3 pcs	0 pcs	3 pcs	\$12.00/pcs	\$36.00
8	171588	RB KIT 407M-23	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 6 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	6 pcs	0 pcs	6 pcs	\$12.00/pcs	\$72.00
9	171587	RB KIT 407M-21	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	4 pcs	0 pcs	4 pcs	\$12.00/pcs	\$48.00
10	171577	RB KIT 407M-05	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	3 pcs	0 pcs	3 pcs	\$12.00/pcs	\$36.00
11	171581	RB KIT 407M-11	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	3 pcs	0 pcs	3 pcs	\$12.00/pcs	\$36.00
12	172345	RB KIT 407M-17	Gauge Pin 1-Issue P/O to KG Grinding; P/O _____ (Ship quantity req'd: 1 vial makes 4 pins) 2-Grind as per DWG. 3- Certificate of Conformity is required	Firmed	3/14/18	2 pcs	0 pcs	2 pcs	\$12.00/pcs	\$24.00

Plex 3/16/18 8:50 AM dart.lavoie.chanta

AFFUTAGE K.G. INC. K.G. GRINDING INC.

40 ans
Depuis 1975

11455 Ave. Philippe Panneton
Montréal, Québec
Canada, H1E 4M1
Tél. : 514-323-0192
Fax : 514-323-6631

Distributeur d'outils de coupe & Affutage sur mesure

Distributor of cutting tools & Custom tooling

BON DE LIVRAISON DELIVERY SLIP

DATE: MAR-14-2018

DART AEROSPACE

73005

P.O. # 39202

QTÉ	LIVRÉE	B/O	DESCRIPTION	PRIX UNITAIRE	TOTAL
6	(6)	-	RBST4241-5		
26	(26)	-	RBST2854-5		
6	(6)	-	RBST1016-5		
6	(6)	-	RBST1007-5		
3	(36)	-	RB KIT 407M-09		
3	(36)	-	" " - 07		
3	(36)	-	" " - 15		
6	(7)	-	" " - 23		
4	(4)	-	" " - 21		
3	(36)	-	" " - 05		
3	(36)	-	" " - 11		
2	(2)	-	" " - 17		
				SOUS-TOTAL	
				TPS	
				TVQ	
				TOTAL:	

REÇU EN BONNE CONDITION / RECEIVED IN GOOD ORDER

www.kggrinding.com • sales@kggrinding.com